MoCOW Equipped Space

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Photo: Leonardo Pallotta @ goo.gl/sIUBYY
SCHOMS Exeter Conference, June 2014,

• *Herd* an *a-moo-sing* presentation from Queensland University of Technology, on how they developed flexible teaching and learning spaces using *moovable* furniture and AV equipment.

• Seemed to go in one ear and out the *udder* for some but we decided to work with QUT, amend their designs and develop a MoCOW for Durham.
Origins

https://www.youtube.com/watch?v=aJkZNAywvRI
On Tour

• Developed in 6 months: work with Procurement to find a metal fabricator; developed blueprints and renders; had chassis built; investigated AV equipment; programmed, configured and tested.

• First MoCOWs out to graze in January 2015. Field tested two units across campus.

• That’s about it really, so I butter not milk my opportunity too much or this will get udderly ridiculous.’
Securing the next step

• Learning Resources Management Group (sub-group of Education Committee) agreed to create a pilot innovative flexible learning space as part of refurbishment during Summer 2015.

• Agreed pilot in a 20 capacity flat floor seminar room with flexible furniture and AV equipment.

• Identified School of Education as an ideal partner for adoption and agreed with Head of Dept.

• Explored options in Durham and Queen’s campuses, selected ED215
Durham University is long-established provider of initial teacher education and has been training teachers since the 1830s.

**Prof Steve Higgins**  
Academic Lead  
Research interests include:  
- Effective use of information and communications technology (ICT).  
- Digital technologies for learning in schools.  
- Understanding how children's thinking and reasoning develops.  
- How teachers can be supported in developing the quality of teaching and learning in their classrooms.

**Chris Smith**  
Usage coordinator  
Teaching & Learning Administrator

**Stephen Ainsley**  
Local IT Expert  
Support Team Lead
ED215: Before
ED215: The Plan

- £23k AV budget + £10k Facilities
- Room configured for group work
- Based on Red, Green, Blue, Yellow colours
- Colour coordinated furniture and finishing
- TopTec Plectrum Tables and Ikon Chairs
MoCOW v2

• **Mobile Computer On Wheels**
  • Interactive Surface Display Screen
  • NPCS Computer
    • Viglen Intel i5 3.2Ghz
    • 8Gb Memory
    • 120Gb Solid state HD
    • Blu-Ray
  • Button Panel Control
  • HDMI Inputs
  • Meeting Webcam
  • Wired and Wireless Keyboards and Mice
  • WiFi and wired networking

• Further enhancements in testing, e.g. Apple TV
ED215: Implementation

- Lost of Facilities Manager
- Change in MoCOW requirement
- Carpets
- Furniture
ED215: The Kit

• 4 Student MoCOWs
  • Ilyama 46” LCD Touch Screen (TH4664MIS-B1AG)
  • AMX control panel (CP-3006)
  • Logitech webcam (C930e)
  • Small form factor PC
    • Blu-Ray Drive
    • Wireless card
    • Wireless mouse & keyboard

• 1 Teacher MoCOW
  • As above
  • Kramer Switcher (SID-X2N)
  • Kramer Splitter & Transmitter (TP-576)
  • Kramer RS232 Control (P-580R)

• 1 NEC 70” LCD display (E705)
  • Kramer Receiver (PT-572+)
Pilot Feedback

• ED215 refurbishment has introduced:
  • New hardware platform
  • Some new software, e.g. Xest for screen sharing across all MoCoWs.
  • New furniture designs

• Staff and students are asked to experiment, use and feedback on the space:
  • Furniture installed
  • Technology deployed
  • Appropriateness to teaching pedagogy
  • Value in supporting collaborative small group work
ED215 Since October 2015

• Used for traditional and innovative teaching.
• Has become the home for the recently reformed TEL Group now supported with a Wolfson Research Grant.
• Hosted the University’s Learning Resources Management Group
• Referenced in Education Committee as a “modern teaching space enabling a suite of technology supported pedagogies to be deployed and utilised to enhance the student learning experience and promote collaborative working between institutions.”
Questions?

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